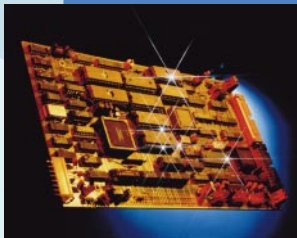


Electronic Commerce



NIST's Roles in Electronic Commerce

- Measurements and Standards
- Technology development
- Assistance to smaller manufacturers

Measurements and Standards

- Work with industry to establish priorities and metrics, and identify barriers
- Provide test methods, tests, and guidelines for industry standards
- Contribute to technical standards and coordinate as appropriate
- Assess, integrate, and provide a neutral testbed for interoperability of Electronic Commerce systems

Technology and Assistance

- Develop with industry high risk, enabling infrastructure technologies for Electronic Commerce
- Assist small manufacturers to enable them to adopt Electronic Commerce

Electronic Commerce Technology Challenges



Security and security services

- Digital signatures
- Public Key Infrastructure
- Encryption

Object services and data exchange

- Digital product descriptions

Standards for Global Electronic Commerce

High speed network technologies

- Internet protocol, version 6

Collaborative environments and multimedia

- Virtual Reality Modeling Language

Players

Industry



- Needs, priorities & applications

Service Providers



- Electronic commerce products & services

DoC



Predictable legal framework

- Acceptance of electronic documents as legal documents
- Intellectual property

DoC/NIST



- Test methods
- Knowledge of existing & emerging competing standards
- Neutral site
- Technology & assistance

Electronic Commerce
in the **21st Century**